Implementation Plan



Production Sector

Company Information

Partner Address Label Here

If the information provided above is incorrect, please make corrections below.

Company Name:

ConocoPhillips Alaska, Inc. and ConocoPhillips

Natural Gas Company

Gas Star Contact:

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Implementation Plan Elements

ELEMENT 1 Best Management Practices (BMPs)

The following BMPs have been identified as significant opportunities to cost effectively reduce methane emissions from the production sector. They were selected based on their applicability to the industry, economic feasibility, and cost-effectiveness. There are 2 core BMPs for the production sector:

BMP 1

Identify and replace high-bleed pneumatic devices

BMP 2

Install flash tank separators on glycol dehydrators

For detailed information on these BMPs, please refer to the Lessons Learned publications on the Natural Gas STAR Web site: <www.epa.gov/gasstar/lessons.htm>.

ELEMENT 2 Partner Reported Opportunities (PROs)

Current partners have reported many processes and technologies that are considered "other Best Management Practices" by the program. New partners are encouraged to evaluate and report current and new practices or technologies that cost effectively reduce methane emissions. PROs are made available to all partners, and can be viewed at: <www.epa.gov/gasstar/pro/index.htm#table>.

ELEMENT 3 Inventory Past Reductions

Partners are encouraged to report past methane emission reductions back to 1990. Accounting for these historical reductions will create a permanent record of your company's methane emission reduction efforts. More information is available in the Spring 1999 Natural Gas STAR Partner Update, which can be viewed at: www.epa.gov/gasstar/newsletters.htm.

The Implementation Plan is designed to be a dynamic tool for Natural Gas STAR Partners to plan their program activities. As company priorities and plans shift over time, the Implementation Plan may be revised or updated by submitting a new form to the program.

ELEMENT 1 Best Management Practices

BMP 1 Identify and Replace High-Bleed Pneumatic Devices

Identify and Replace High-Bleed Pneumatic Device	es e e e e e e e e e e e e e e e e e e
Pneumatic devices used to control and monitor gas and liquid flows and levels in dehydrators and separators, temperature in dehydrator regenerators, and pressure in flash tanks emit large amounts of methane into the atmosphere. Replacing these with low- or no-bleed devices reduces or eliminates emissions and improves safety.	Estimated Reduction Potential 124 Mcf/year/device
Will you be implementing this BMP? X Yes No If no, why? Not cost effective X May consider at a later date (contingent on outcome of inventory) Other Please describe:	One Field as most of the
CPAI is committed to conducting an inventory of high bleed devices at the Beluga River Implementation Plan. CPAI will determine appropriate follow up in terms of economic montrols based on the outcome of the survey.	Gas Field as part of the lethane emission
If yes, at what scale will you be implementing this BMP? Company Wide Pilot Project X Other Please describe: As noted, CPAI will manage toward this BMP at a specific field location. The E other Alaska work locations.	BMP is not applicable in
Activity Summary	
Number of high-bleed pneumatic devices in system? <u>TBD</u>	
Number of high-bleed pneumatic devices to be replaced? <u>TBD</u>	
Replacement Schedule	
Number of high-bleed pneumatic devices to be replaced by the end of:	
Year 1: Year 2: Year 3: Year 4:	
Additional Information on Anticipated Plans and Projects	

If additional space is needed, please continue on the back.

BMP 2 Install Flash Tank Separators on Glycol Dehydrators

Installing a flash tank separator in a glycol dehydrator facilitates the removal of methane and natural gas liquids from the glycol stream. The recovered gas can be put back into the pipeline, used as a fuel on-site, or flared.

Estimated Reduction
Potential
170 scf/MMcf of throughput

3 -1
Will you be implementing this BMP?
This BMP is not applicable within CPAI operations. Other design measures are in place that minimize methane emissions from glycol dehydrators.
If yes, at what scale will you be implementing this BMP? Company Wide Pilot Project Other
Please describe:
Activity Summary
Number of glycol dehydrators currently equipped with flash tank separators Number of glycol dehydrators suitable for flash tank installation?
Replacement Schedule
Number of flash tank separators to be installed by the end of: Year 1: Year 2: Year 3: Year 4:
Additional Information on Anticipated Plans and Projects

If additional space is needed, please continue on the back.

ELEMENT 2 Best Management Practices

Your company may take advantage of additional technologies or practices to reduce methane emissions. These can be reported to Natural Gas STAR as PROs. Following is a list of some of the PROs that have been reported by other Gas STAR partners, which may be applicable to your operations (for more information on these PROs, please view: <www.epa.gov gasstar="" index.htm="" pro=""> and <www.epa.gov gasstar="" lessons.htm="">):</www.epa.gov></www.epa.gov>		
PROs you will be implementing	Please describe	
PRO Install Vapor Recovery Units (VRUs) At what scale will you be implementing this BMP? Company Wide Pilot Project X Other Site specific project	CPAI is committed to an engineering evaluation of vapor recovery for the CPF-1 produced water storage tanks (2) in conjunction with long range planning efforts.	
PRO Directed Inspection and Maintenance with Optical Imaging At what scale will you be implementing this BMP? Company Wide X Pilot Project Other	CPAI will be collaborating with COP Canada to conduct a pilot leak detection survey of Alaska assets.	
PRO		
At what scale will you be implementing this BMP? Company Wide Pilot Project Other		
PRO		
At what scale will you be implementing this BMP? Company Wide Pilot Project Other		